

**MSDS for: LN-603****Revised: 6-Feb-2004****SECTION 1:**

PRODUCT IDENTIFIER: LN-603 LIQUID NAILS FOR PROJECTS & CONSTRUCTION  
DATE OF PREPARATION: FEBRUARY 6, 2004  
PRODUCT USE: ADHESIVE

MANUFACTURED BY: MACCO ADHESIVES  
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CLEVELAND, OHIO 44115, U.S.A.

ICI PAINTS (CANADA)  
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CONCORD, ONTARIO L4K 2A5, CANADA

EMERGENCY AND MSDS TELEPHONE NUMBER: 1-800-545-2643

MSDS PREPARED BY: PRODUCT SAFETY AND TOXICOLOGY DEPARTMENT  
ICI PAINTS NORTH AMERICA

**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENT	WT. %
CHEMICAL NAME: LIMESTONE COMMON NAME: LIMESTONE CAS NUMBER: 1317-65-3	5-10
CHEMICAL NAME: KAOLIN COMMON NAME: CLAY CAS NUMBER: 1332-58-7	30-40
CHEMICAL NAME: HEPTANE COMMON NAME: HEPTANE CAS NUMBER: 142-82-5	5-10
CHEMICAL NAME: QUARTZ COMMON NAME: QUARTZ CAS NUMBER: 14808-60-7	0.1-1.0
CHEMICAL NAME: BENZENE, 1,3-DIETHENYL-, POLYMER WITH 1,3-BUTADIENE AND ETHENYLBENZENE COMMON NAME: STYRENE-BUTADIENE POLYMER CAS NUMBER: 26471-45-4	5-10
CHEMICAL NAME: DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC COMMON NAME: PETROLEUM HYDROCARBON CAS NUMBER: 64742-52-5	5-10
CHEMICAL NAME: SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC COMMON NAME: LIGHT ALIPHATIC SOLVENT NAPHTHA (PETROLEUM) CAS NUMBER: 64742-89-8	20-30

CHEMICAL NAME: DISTILLATES (PETROLEUM), STEAM-CRACKED, POLYMERS 10-20  
WITH LIGHT STEAM-CRACKED PETROLEUM NAPHTHA  
COMMON NAME: AROMATIC HYDROCARBON RESIN  
CAS NUMBER: 68410-16-2

### SECTION 3: HAZARDS IDENTIFICATION

HMS CODE: \*2-3-0-H

PRIMARY ROUTE(S) OF EXPOSURE: SKIN CONTACT, EYE CONTACT,  
INGESTION, INHALATION

#### EFFECTS OF OVEREXPOSURE

INHALATION: IRRITATION OF RESPIRATORY TRACT. PROLONGED INHALATION  
MAY LEAD TO LOSS OF APPETITE, FATIGUE, DIZZINESS AND/OR  
LIGHTEADEDNESS, HEADACHE, UNCOORDINATION, NAUSEA,  
SORE THROAT, CENTRAL NERVOUS SYSTEM DEPRESSION,  
INTOXICATION, ANESTHETIC EFFECT OR NARCOSIS,  
PNEUMOCONIOSIS, LOSS OF CONSCIOUSNESS, ASPHYXIATION.

SKIN CONTACT: IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT CAN  
CAUSE DERMATITIS, DEFATTING.

EYE CONTACT: IRRITATION OF EYES. PROLONGED OR REPEATED CONTACT CAN  
CAUSE CONJUNCTIVITIS, BLURRED VISION, TEARING OF EYES,  
REDNESS OF EYES, SEVERE EYE IRRITATION.

INGESTION: INGESTION MAY CAUSE LUNG INFLAMMATION AND DAMAGE DUE  
TO ASPIRATION OF MATERIAL INTO LUNGS, DIZZINESS AND/OR  
LIGHTEADEDNESS, HEADACHE, UNCOORDINATION, NAUSEA,  
VOMITING, DIARRHEA, GASTRO-INTESTINAL DISTURBANCES,  
ABDOMINAL PAIN, COUGHING, CENTRAL NERVOUS SYSTEM  
DEPRESSION, INTOXICATION, DIFFICULTY OF BREATHING,  
PULMONARY EDEMA, CYANOSIS.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: RESPIRATORY DISORDERS,  
LUNG DISORDERS, SKIN, EYE

### SECTION 4: FIRST-AID MEASURES

INHALATION: REMOVE TO FRESH AIR. RESTORE AND SUPPORT CONTINUED  
BREATHING. GET EMERGENCY MEDICAL ATTENTION. HAVE  
TRAINED PERSON GIVE OXYGEN IF NECESSARY. GET MEDICAL  
HELP FOR ANY BREATHING DIFFICULTY.

SKIN CONTACT: WASH THOROUGHLY WITH SOAP AND WATER. IF ANY PRODUCT  
REMAINS, GENTLY RUB PETROLEUM JELLY, VEGETABLE OR  
MINERAL/BABY OIL ONTO SKIN. REPEATED APPLICATIONS MAY BE  
NEEDED. REMOVE CONTAMINATED CLOTHING. WASH  
CONTAMINATED CLOTHING BEFORE RE-USE.

EYE CONTACT: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER, ESPECIALLY UNDER LIDS FOR AT LEAST 15 MINUTES. IF IRRITATION OR OTHER EFFECTS PERSIST, OBTAIN MEDICAL TREATMENT.

INGESTION: IF SWALLOWED, OBTAIN MEDICAL TREATMENT IMMEDIATELY.

#### **SECTION 5: FIRE-FIGHTING MEASURES**

FLASH POINT (SETA): 23 F/ -5 C. LOWER EXPLOSIVE LIMIT: NOT AVAILABLE  
UPPER EXPLOSIVE LIMIT: NOT AVAILABLE

FIRE EXTINGUISHING MEDIA: DRY CHEMICAL OR FOAM, WATER FOG, CARBON DIOXIDE.

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS**

CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT OR FIRE. VAPORS MAY IGNITE EXPLOSIVELY AT AMBIENT TEMPERATURES. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL LONG DISTANCES TO A SOURCE OF IGNITION AND FLASH BACK. VAPORS CAN FORM EXPLOSIVE MIXTURES IN AIR AT ELEVATED TEMPERATURES. CLOSED CONTAINERS MAY BURST IF EXPOSED TO EXTREME HEAT OR FIRE. MAY DECOMPOSE UNDER FIRE CONDITIONS EMITTING IRRITANT AND/OR TOXIC GASES.

#### **FIRE FIGHTING PROCEDURES**

WATER MAY BE USED TO COOL AND PROTECT EXPOSED CONTAINERS. FIREFIGHTERS SHOULD USE FULL PROTECTIVE CLOTHING, EYE PROTECTION, AND SELF-CONTAINED BREATHING APPARATUS. SELF-CONTAINED BREATHING APPARATUS RECOMMENDED.

#### **HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS**

CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF SULFUR, ALDEHYDES, TOXIC GASES, OXIDES OF CALCIUM, SMOKE

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

##### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

COMPLY WITH ALL APPLICABLE HEALTH AND ENVIRONMENTAL REGULATIONS. ELIMINATE ALL SOURCES OF IGNITION. VENTILATE AREA WITH EXPLOSION-PROOF EQUIPMENT. SPILLS MAY BE COLLECTED WITH ABSORBENT MATERIALS. USE NON-SPARKING TOOLS. EVACUATE ALL UNNECESSARY PERSONNEL. PLACE COLLECTED MATERIAL IN PROPER CONTAINER. WET DOWN SPILLED MATERIAL WITH WATER. COMPLETE PERSONAL PROTECTIVE EQUIPMENT MUST BE USED DURING CLEANUP.

LARGE SPILLS: SHUT OFF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN SPILL. PUMP TO STORAGE OR SALVAGE VESSELS. USE ABSORBENT TO PICK UP EXCESS RESIDUE. KEEP SALVAGEABLE MATERIAL AND RINSE WATER OUT OF SEWERS AND WATER COURSES.

SMALL SPILLS: USE ABSORBENT TO PICK UP RESIDUE AND DISPOSE OF PROPERLY.

## SECTION 7: HANDLING AND STORAGE

### HANDLING AND STORAGE

STORE BELOW 80F. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. OTHER PRECAUTIONS USE ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH SKIN AND EYES, AND BREATHING OF VAPORS. WASH HANDS THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING OR SMOKING. KEEP CONTAINERS TIGHTLY CLOSED AND UPRIGHT WHEN NOT IN USE. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUES. GROUND EQUIPMENT WHEN TRANSFERRING TO PREVENT ACCUMULATION OF STATIC CHARGE.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

COMMON NAME:	LIMESTONE	
CAS NUMBER:	1317-65-3	
ACGIH(TWA):	10 MG/M3	OSHA(TWA): 5 MG/M3
COMMON NAME:	CLAY	
CAS NUMBER:	1332-58-7	
ACGIH(TWA):	2 MG/M3	OSHA(TWA): 5 MG/M3
COMMON NAME:	HEPTANE	
CAS NUMBER:	142-82-5	
ACGIH(TWA):	400 PPM	OSHA(TWA): 500 PPM
ACGIH(STEL):	500 PPM	
COMMON NAME:	QUARTZ	
CAS NUMBER:	14808-60-7	
ACGIH(TWA):	0.05 MG/M3	OSHA(TWA): 0.1 MG/M3
COMMON NAME:	PETROLEUM HYDROCARBON	
CAS NUMBER:	64742-52-5	
ACGIH(TWA):	5 MG/M3	OSHA(TWA): 5 MG/M3
ACGIH(STEL):	10 MG/M3	
COMMON NAME:	LIGHT ALIPHATIC SOLVENT NAPHTHA (PETROLEUM)	
CAS NUMBER:	64742-89-8	
OSHA(TWA):	300 PPM	

### RESPIRATORY PROTECTION

CONTROL ENVIRONMENTAL CONCENTRATIONS BELOW APPLICABLE EXPOSURE STANDARDS WHEN USING THIS MATERIAL. WHEN RESPIRATORY PROTECTION IS DETERMINED TO BE NECESSARY, USE A NIOSH/MSHA (CANADIAN Z94.4) APPROVED ELASTOMERIC SEALING-SURFACE FACEPIECE RESPIRATOR OUTFITTED WITH ORGANIC VAPOR CARTRIDGES AND PAINT SPRAY (DUST/MIST) PREFILTERS. DETERMINE THE PROPER LEVEL OF PROTECTION BY CONDUCTING APPROPRIATE AIR MONITORING. CONSULT 29CFR1910.134 FOR SELECTION OF RESPIRATORS (CANADIAN Z94.4).

VENTILATION: PROVIDE DILUTION VENTILATION OR LOCAL EXHAUST TO PREVENT BUILD-UP OF VAPORS. USE EXPLOSION-PROOF EQUIPMENT. USE NON-SPARKING EQUIPMENT.

## PERSONAL PROTECTIVE EQUIPMENT

EYE WASH, SAFETY SHOWER, SAFETY GLASSES OR GOGGLES,  
IMPERVIOUS GLOVES, IMPERVIOUS CLOTHING

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE:	NOT AVAILABLE	SPECIFIC GRAVITY:	1.131
BOILING RANGE (F/C):	200-200/ 93- 93	WEIGHT PER GALLON:	9.42/ 11.31IMP
%VOLATILE BY VOLUME:	51.93	PHYSICAL STATE:	PASTE
APPEARANCE:	TAN	SOLUBLE IN WATER:	NO
PH:	NOT APPLICABLE	HMIS CODE:	*2-3-0-H

## SECTION 10: STABILITY AND REACTIVITY

UNDER NORMAL CONDITIONS: STABLE (SEE SECTION 5 FIRE FIGHTING MEASURES)

MATERIALS TO AVOID: OXIDIZERS, ACIDS, BASES, STYRENE MONOMER,  
PEROXIDES

CONDITIONS TO AVOID: ELEVATED TEMPERATURES, CONTACT WITH  
OXIDIZING AGENT, SPARKS, OPEN FLAME, IGNITION  
SOURCES

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

## SECTION 11: TOXICOLOGICAL INFORMATION

COMMON NAME:	LIMESTONE			
CAS NUMBER:	1317-65-3			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
LD50:	6450.00 MG/KG ORL RAT			

COMMON NAME:	CLAY			
CAS NUMBER:	1332-58-7			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO

COMMON NAME:	HEPTANE			
CAS NUMBER:	142-82-5			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
LD50:	222.00 MG/KG IVN MOU			

COMMON NAME:	QUARTZ			
CAS NUMBER:	14808-60-7			
CARCINOGENICITY LISTED BY:	NTP YES	IARC YES 1	OSHA NO	ACGIH NO

COMMON NAME:	PETROLEUM HYDROCARBON			
CAS NUMBER:	64742-52-5			
CARCINOGENICITY LISTED BY:	NTP NO	IARC YES 1	OSHA NO	ACGIH NO
LD50:	>2000.00 MG/KG SKN RBT			

COMMON NAME: LIGHT ALIPHATIC SOLVENT NAPHTHA (PETROLEUM)  
CAS NUMBER: 64742-89-8  
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO  
LD50: > 3.16 GM/KG SKN RBT  
LD50: > 5.00 GM/KG ORL RAT

COMMON NAME: AROMATIC HYDROCARBON RESIN  
CAS NUMBER: 68410-16-2  
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

#### SUPPLEMENTAL HEALTH INFORMATION

CONTAINS A CHEMICAL THAT MAY BE ABSORBED THROUGH SKIN.

NOTICE - REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL. OTHER EFFECTS OF OVEREXPOSURE MAY INCLUDE TOXICITY TO CENTRAL NERVOUS SYSTEM.

CARCINOGENICITY: CONTAINS CRYSTALLINE SILICA WHICH IS CONSIDERED A HAZARD BY INHALATION. IARC HAS CLASSIFIED CRYSTALLINE SILICA AS CARCINOGENIC TO HUMANS (GROUP 1). CRYSTALLINE SILICA IS ALSO A KNOWN CAUSE OF SILICOSIS, A NONCANCEROUS LUNG DISEASE. THE NATIONAL TOXICOLOGY PROGRAM (NTP) HAS CLASSIFIED CRYSTALLINE SILICA AS A KNOWN HUMAN CARCINOGEN.

REPRODUCTIVE EFFECTS: NO REPRODUCTIVE EFFECTS ARE ANTICIPATED

MUTAGENICITY: NO MUTAGENIC EFFECTS ARE ANTICIPATED

TERATOGENICITY: NO TERATOGENIC EFFECTS ARE ANTICIPATED

#### SECTION 12: ECOLOGICAL INFORMATION

NO ECOLOGICAL TESTING HAS BEEN DONE BY ICI PAINTS ON THIS PRODUCT AS A WHOLE.

#### SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

#### SECTION 14: TRANSPORT INFORMATION

DOT: ADHESIVES, 3, UN1133, PGII  
IMDG: ADHESIVES, CLASS 3, UN1133, PGII, LIMITED QUANTITY  
IATA: ADHESIVES, 3, UN1133, PGII  
TDG: NOT AVAILABLE

#### **SECTION 15: REGULATORY INFORMATION**

SARA 302	SARA 313	CERCLA 302.4	HAZ AIR POLLUTANT	MARINE POLTNT
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THIS PRODUCT CONTAINS NO SARA 302, CERCLA 302.4 OR HAZARDOUS AIR POLLUTANT CHEMICALS. IT ALSO CONTAINS NO CHEMICALS WHICH ARE SUBJECT TO THE REPORTING REQUIREMENTS UNDER SARA 313. AS OF THE DATE OF THIS MSDS, ALL OF THE COMPONENTS IN THIS PRODUCT ARE LISTED (OR ARE OTHERWISE EXEMPT FROM LISTING) ON THE TSCA INVENTORY. THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR (CONTROLLED PRODUCTS REGULATIONS) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

#### **SECTION 16: OTHER INFORMATION**

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE AT THE TIME OF PREPARATION OF THIS DATA SHEET AND WHICH ICI PAINTS BELIEVES TO BE RELIABLE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA. ICI PAINTS SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS INFORMATION, OR OF ANY PRODUCT, METHOD OR APPARATUS MENTIONED AND YOU MUST MAKE YOUR OWN DETERMINATION OF ITS SUITABILITY AND COMPLETENESS FOR YOUR OWN USE, FOR THE PROTECTION OF THE ENVIRONMENT, AND THE HEALTH AND SAFETY OF YOUR EMPLOYEES AND USERS OF THIS MATERIAL. COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD 29CFR1910.1200.